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Relevance scale **1** [Flexible collaboration transparency: supporting worker independence in replicated application-sharing systems](#) 

James Begole, Mary Beth Rosson, Clifford A. Shaffer

June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2Full text available:  [pdf\(312.22 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents a critique of conventional collaboration transparency systems, also called "application-sharing" systems, which provide the real-time shared use of legacy single-user applications. We find that conventional collaboration transparency systems are inefficient in their use of network resources and lack support for key groupware principles: concurrent work, relaxed WYSIWIS, and group awareness. Next, we present an alternative approach to implementing collaborat ...

Keywords: Flexible JAMM, Java, application sharing, collaboration transparency, computer-supported cooperative work, groupware, usability

2 [Collaboration awareness in support of collaboration transparency: requirements for the next generation of shared window systems](#) 

J. Chris Lauwers, Keith A. Lantz

March 1990 **Proceedings of the SIGCHI conference on Human factors in computing systems: Empowering people**Full text available:  [pdf\(1.18 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Shared window systems enable existing applications to be shared in the context of a real-time teleconference. The development and successful use of several such systems, albeit within limited user communities, testifies to the merits of the basic idea. However, experience to date has suggested a number of areas that have not been adequately addressed, namely: spontaneous interactions, shared workspace management, floor control, and annotation and telepointing. This paper focuses on the rami ...

3 [Multiblending: displaying overlapping windows simultaneously without the drawbacks of alpha blending](#) 

Patrick Baudisch, Carl Gutwin

April 2004 **Proceedings of the 2004 conference on Human factors in computing systems**

Full text available:  pdf(1.48 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Alpha blending allows the simultaneous display of overlapping windows—such as palette windows in visual workspaces. Although alpha blending has been used in some applications, such as games, it has not been widely adopted. One reason for the limited acceptance is that in many scenarios, alpha blending compromises the readability of content. We introduce a new blending mechanism called *multiblending* that uses a vector of blending weights, one for each class of features, rather than a single ...

Keywords: alpha blending, semitransparency, windows

4 Transparency and awareness in a real-time groupware system

Michel Beaudouin-Lafon, Alain Karsenty

December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article explores real-time groupware systems from the perspective of both the users and the designer. This exploration is carried out through the description of GroupDesign, a real-time multi-user drawing tool that we have developed. From the perspective of the users, we present a number of functionalities that we feel necessary in any real-time groupware system: Graphic & Audio Echo, Localization, Identification, Age, and History. From the perspective of the designer, we demonstra ...

5 Collaboration transparency in the DISCIPLE framework

Wen Li, Weicong Wang, Ivan Marsic

November 1999 **Proceedings of the international ACM SIGGROUP conference on Supporting group work**

Full text available:  pdf(2.04 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Sharing single-user software applications is a major goal of synchronous groupware particularly because the majority of applications continues to be developed for single users. We present a mechanism for sharing collaboration-transparent single-user applications in our DISCIPLE collaboration framework. DISCIPLE is the equivalent of a Web browser that allows sharing applets (Java components, both transparent and aware of collaboration). It allows users with no programming background to quick ...

Keywords: CSCW frameworks, JavaBeans, collaboration-transparent applications, synchronous groupware

6 Transparent layered user interfaces: an evaluation of a display design to enhance focused and divided attention

Beverly L. Harrison, Hiroshi Ishii, Kim J. Vicente, William A. S. Buxton

May 1995 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  html(44.09 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Full papers: Ametista: a mini-toolkit for exploring new window management techniques

Nicolas Roussel

August 2003 **Proceedings of the Latin American conference on Human-computer interaction**

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Although the HCI research community has contributed a number of metaphors, interaction techniques and layout algorithms to improve window management tasks, most of these ended as prototypes and only a few were implemented in real window managers. In this paper, we present Ametista, a mini-toolkit designed to facilitate the exploration of new window management techniques using both low-fidelity prototyping and a high-fidelity approach based on X Window application redirection.

Keywords: OpenGL, VNC, X Window system, application redirection, graphical interaction, prototyping, window management

8 Transparent sharing of Java applets: a replicated approach 

James Begole, Craig A. Struble, Clifford A. Shaffer, Randall B. Smith

October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**

Full text available:  pdf(1.43 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Java, collaboration transparency, computer-supported cooperative work, groupware

9 Late-breaking results: new metaphors for user interfaces: Employing the periphery: the window as interface 

Roy Rodenstein

May 1999 **CHI '99 extended abstracts on Human factors in computing systems**

Full text available:  pdf(268.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes work which employs a room's window as a location for a peripheral interface. Windows have several properties which make them well-suited to unobtrusive display including their transparency, their positive associations for people and natural peripheral use by them, and their nature as a clean and pleasing interface between spaces. We have initially explored the display of graphical weather forecasts, of activity in the space outside the window, and of historical images of the ...

Keywords: activity, ambient display, history, peripheral interfaces, transparent display, weather

10 A distributed and policy-free general-purpose shared window system 

Thomas Gutekunst, Daniel Bauer, Germano Caronni, Bernhard Plattner, Hasan

February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1

Full text available:  pdf(1.74 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Groupware infrastructure: Transparent sharing and interoperation of heterogeneous single-user applications 

Du Li, Rui Li

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

Full text available:  pdf(376.29 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multi-user applications generally lag behind in features or compatibility with single-user applications. As a result, users are often not motivated to abandon their favorite single-user

applications for groupware features that are less frequently used. A well-accepted approach, *collaboration transparency*, is able to convert off-the-shelf single-user applications into groupware without modifying the source code. However, existing systems have been largely striving to develop generic applic ...

Keywords: application sharing, collaboration transparency, group editing, heterogeneity, interoperation

12 Replicated architectures for shared window systems: a critique

J. C. Lauwers, T. A. Joseph, K. A. Lantz, A. L. Romanow

March 1990 **ACM SIGOIS Bulletin , Proceedings of the conference on Office information systems**, Volume 11 Issue 2-3

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Replicating applications in a shared window environment can significantly improve the performance of the resulting system. Compared to a completely centralized approach, a replicated architecture offers superior response time and reduces network load. To date, however, these advantages have been overshadowed by the equally significant synchronization problems associated with replication. In this paper we document these problems and show that the most frequent synchronization problems can be ...

13 Article abstracts with full text online: A general framework for constructing application cooperating system in Windows environment

Baomin Xu, Weimin Lian, Qiang Gao

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Full text available:  pdf(185.07 KB)

Additional Information: [full citation](#), [abstract](#)

We often need to discuss or modify the results generated by single-user CAD applications when they are applied to cooperative design. To our knowledge, however, almost all the existing cooperative systems or tools, such as shared white-board and application sharing, have some limitations when used for to such task. When considering these limitations, we have coined the term "Application Cooperating" which means to retain the original features of the single-user CAD applications and when using th ...

Keywords: CSCW, application sharing, collaboration-aware, group awareness

14 Ada and the X Window System

Stu Lewin, Kirk Beitz, Christopher Byrnes, Michael Hardy, Rich Hilliard, Craig Warsaw

December 1991 **Proceedings of the conference on TRI-Ada '91: today's accomplishments; tomorrow's expectations**

Full text available:  pdf(435.56 KB)

Additional Information: [full citation](#), [index terms](#)

15 An experimental evaluation of transparent user interface tools and information content

Beverly L. Harrison, Gordon Kurtenbach, Kim J. Vicente

December 1995 **Proceedings of the 8th annual ACM symposium on User interface and software technology**

Full text available:  pdf(1.28 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: display design, interaction technology, toolglass, transparency, user interface design

16 The architecture and implementation of CPN2000, a post-WIMP graphical application

Michel Beaudouin-Lafon, Henry Michael Lassen

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**Full text available:  pdf(92.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: OpenGL, advanced interaction techniques, coloured Petri nets, instrumental interaction, post-WIMP interfaces, two-handed input, user interface toolkit

17 Developing object-oriented user interfaces in Ada with the X Window system

Gary W. Klabunde, Mark A. Roth

December 1992 **Proceedings of the conference on TRI-Ada '92**Full text available:  pdf(929.03 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**18 Hardware acceleration for Window systems**

D. Rhoden, C. Wilcox

July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques**, Volume 23 Issue 3Full text available:  pdf(1.81 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19 Client-server computing**

Alok Sinha

July 1992 **Communications of the ACM**, Volume 35 Issue 7Full text available:  pdf(7.53 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: client-server computing

20 Representation in virtual space: visual convention in the graphical user interface

Loretta Staples

May 1993 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  pdf(2.95 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The graphical user interface (GUI) typically provides a multi-windowed environment within a flat workspace or "desktop." Simultaneously, however, controls for executing commands within this interface are increasingly being rendered three-dimensionally. This paper explores ways in which the space of the GUI desktop might be literally and figuratively deepened through the incorporation of visual devices that have emerged during the history of art—specifically, perspective and ...

Keywords: art, art history, methodology, representation, three-dimensional graphics, user interfaces

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TITLE: Graphics display system with unified memory architecture

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TITLE: Apparatus and method for blending graphics and video surfaces

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TITLE: Synchronizing/updating local client notes with annotations previously made by other clients in a notes database

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6. Document ID: US 6661427 B1

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US-PAT-NO: 6661427

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Oct 21, 2003

US-PAT-NO: 6636222

DOCUMENT-IDENTIFIER: US 6636222 B1

TITLE: Video and graphics system with an MPEG video decoder for concurrent multi-row decoding

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Oct 7, 2003

US-PAT-NO: 6630945

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TITLE: Graphics display system with graphics window control mechanism

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US-PAT-NO: 6573905

DOCUMENT-IDENTIFIER: US_6573905_B1

TITLE: Video and graphics system with parallel processing of graphics windows

12. Document ID: US 6570579 B1

L2: Entry 12 of 23

File: USPT

May 27, 2003

US-PAT-NO: 6570579

DOCUMENT-IDENTIFIER: US_6570579_B1

TITLE: Graphics display system

13. Document ID: US 6538660 B1

L2: Entry 13 of 23

File: USPT

Mar 25, 2003

US-PAT-NO: 6538660

DOCUMENT-IDENTIFIER: US_6538660_B1

TITLE: Method, system, and program for superimposing data from different application programs

14. Document ID: US 6538656 B1

L2: Entry 14 of 23

File: USPT

Mar 25, 2003

US-PAT-NO: 6538656

DOCUMENT-IDENTIFIER: US_6538656_B1

TITLE: Video and graphics system with a data transport processor

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

15. Document ID: US 6529935 B1

L2: Entry 15 of 23

File: USPT

Mar 4, 2003

US-PAT-NO: 6529935

DOCUMENT-IDENTIFIER: US 6529935 B1

** See image for Certificate of Correction **

TITLE: Graphics display system with unified memory architecture

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

16. Document ID: US 6529208 B1

L2: Entry 16 of 23

File: USPT

Mar 4, 2003

US-PAT-NO: 6529208

DOCUMENT-IDENTIFIER: US 6529208 B1

TITLE: Method and apparatus for updating a window identification buffer in a data processing system

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

17. Document ID: US 6519050 B1

L2: Entry 17 of 23

File: USPT

Feb 11, 2003

US-PAT-NO: 6519050

DOCUMENT-IDENTIFIER: US 6519050 B1

TITLE: Client/server based color density measurement system

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn D](#)

18. Document ID: US 6396598 B1

L2: Entry 18 of 23

File: USPT

May 28, 2002

US-PAT-NO: 6396598

DOCUMENT-IDENTIFIER: US 6396598 B1

TITLE: Method and apparatus for electronic memo processing for integrally managing document including paper document and electronic memo added to the document

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 19. Document ID: US 6359631 B2

L2: Entry 19 of 23

File: USPT

Mar 19, 2002

US-PAT-NO: 6359631

DOCUMENT-IDENTIFIER: US 6359631 B2

TITLE: Method of enabling display transparency for application programs without native transparency support

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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 20. Document ID: US 6279014 B1

L2: Entry 20 of 23

File: USPT

Aug 21, 2001

US-PAT-NO: 6279014

DOCUMENT-IDENTIFIER: US 6279014 B1

TITLE: Method and system for organizing documents based upon annotations in context

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC	Drawn D
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21. Document ID: US 6252595 B1

L2: Entry 21 of 23

File: USPT

Jun 26, 2001

US-PAT-NO: 6252595

DOCUMENT-IDENTIFIER: US 6252595 B1

TITLE: Method and apparatus for a multi-state window

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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22. Document ID: US 6246407 B1

L2: Entry 22 of 23

File: USPT

Jun 12, 2001

US-PAT-NO: 6246407

DOCUMENT-IDENTIFIER: US 6246407 B1

TITLE: Method and apparatus for overlaying a window with a multi-state window

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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23. Document ID: US 6151030 A

L2: Entry 23 of 23

File: USPT

Nov 21, 2000

US-PAT-NO: 6151030

DOCUMENT-IDENTIFIER: US 6151030 A

TITLE: Method of creating transparent graphics

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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